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(54) **METHOD AND SYSTEM FOR PROVIDING CALIBRATION OF AN ANALYTE SENSOR IN AN ANALYTE MONITORING SYSTEM**

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(58) **Field of Classification Search**

CPC .. *A61B 5/145*; *A61B 5/14532*; *A61B 5/1495*; *A61B 5/14503*; *A61B 5/14546*; *A61B 5/1468*; *A61B 5/1473*; *A61B 5/14735*; *A61B 5/1486*; *A61B 5/14865*; *A61B 2560/0223*; *G01N 27/3274*; *G06F 19/3412*

See application file for complete search history.

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(57)

ABSTRACT

Method and apparatus for providing calibration of analyte sensor including applying a control signal, detecting a measured response to the control signal, determining a variance in the detected measured response, and estimating a sensor sensitivity based on the variance in the detected measured response is provided.

20 Claims, 7 Drawing Sheets

